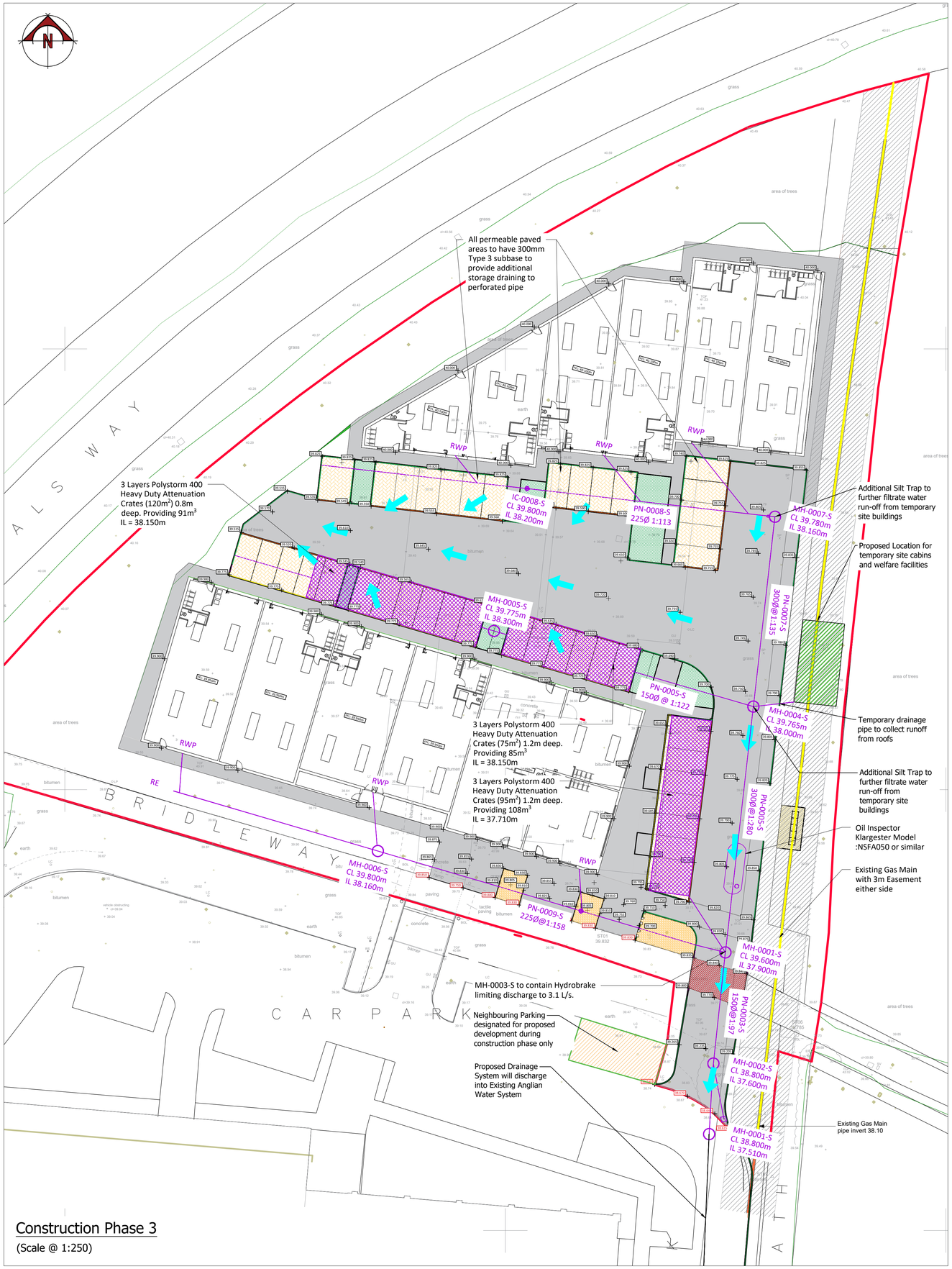

Construction Phase 3

(Scale @ 1:250)

Management and Maintenance

The maintenance activities listed below are considered to be the basic tasks necessary to keep the site drainage systems working at optimum efficiency, which is necessary to ensure that they have capacity to deal with extreme/ unusual events. Other activities, such as litter removal/ repairs etc. will be required.

Area	Maintenance Activity	Frequency	Responsibility
'On Plot'Hard-Surfacing & Drainage	Spillages	Provision of Spill Kits to contain contaminants	Site supervisor
Development Site Access Road	Periodic sweeping to remove debris, leaves,etc	Every 2-4 weeks during autumn	Site supervisor
Flood routes –	Make visual inspection. Check route is not blocked by new fences, walls, soil or other rubbish.	Remove as necessary- Monthly	Site supervisor
Overflows –	If overflow is not clear then dismantle the structure and reassemble to design detail	As required	Site Supervisor

Incident Action Plan

In the event an incident/spillage occurs, Hydro-brake is to be 'capped off' to stop flows exiting the site and spillages should be pumped out of chamber and tankered off site.

Hazard Chemicals should be stored in a lockable container. In the event a spillage occurs, spill kits will be provided on-site and all incidents should be cleaned/fixed, before construction resumes. Broken Chemical containers should be removed from site by an approved company once the incident has been cleaned. If further hazardous material is found, staff should inform their supervisors immediately and the above procedure should be followed.

Spill Kit Usage:

1. Put on PPE.
2. Access the Spill Kit.
3. Lay Down a Safety Barrier
4. Lay Down a Safety Barrier.
5. Stop the Leak.
6. Absorb the Spillage.
7. Clean- up the spill site.
8. Dispose of contaminated Chemical Waste.
9. Report the Incident.

Attenuation tanks	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly	Site Supervisor
	Repair/rehabilitate inlets, outlet,	As Required	Site Supervisor
Silt Traps	De-Silt and remove litter and debris.	Every 2-4 Weeks in Autumn, and monthly throughout rest of year.	Site Supervisor

Simple Pollution Indices:

Area	Pollution Indices			Proposed Treatment	Mitigation Indices			Residual Indices		
	TSS	Metals	Hydro-Carbons		TSS	Metals	Hydro-Carbons	TSS	Metals	Hydro-Carbons
Industrial Roofs	0.3	0.2	0.05	Silt Trap	0.3	0.3	0.2	0.0	0.0	0.0
Access Road	0.7	0.6	0.7	Permeable paving	0.7	0.6	0.7	0.0	0.0	0.0
				Oil Interceptor	0.8	0.8	0.8	0.0	0.0	0.0

Key

HB-HALF BATTERED KERB
BN-BULLNOSE KERB
TN-TRANSITION KERB
EF-EDGING OF FOOTPATH

Permeable Paving
Tarmac
Gravel
Grass
3.000 Proposed Levels
Surface Water Polypropylene Inspection Chamber
Private Storm Water Manhole
Road Gully
1:36 Arrow Gradient
Exceedence Flow Arrow

CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015

THE CONTRACTORS ATTENTION IS DRAWN TO THE ABNORMAL RISKS IDENTIFIED BELOW, ANNOTATED ON THE DRAWING AND EXPLAINED IN THE ASSOCIATED DESIGN RISK REGISTERS

LEGEND

YOU MUST NOT DO
HAZARD OR DANGER
YOU MUST DO
CAUTION

ABNORMAL RISKS IDENTIFIED:

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NOTES

1. All dimensions are in millimetres unless stated otherwise.
2. This drawing to be read in conjunction with all other relevant drawings and specifications.
3. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

STANDARD DRAINAGE NOTES:

1. Except where specifically shown otherwise all below ground pipes / connections shall be 100mm dia PVC (to BS 4660) or VC (to BS 5481) with flexible joints and laid to minimum falls of 1 in 40, except where connected to WC when falls may be 1 in 80.
2. All gravity pipe runs to be tested to a standing head of 1500mm head of water above the invert at the head of the pipe run (but not exceeding 4000mm at the lower end)
3. For details of bed and surround requirements refer to long-sections and standard details. In all other situations provide 150mm of 10mm single-sized rounded gravel bedding and surround.
4. Except where specifically shown otherwise, pipes to be a minimum of 900mm below roads/driveways and 600mm below gardens/fields.
5. Ventilating pipes to be provided at the head of each drain and to any branch longer than 6m where a single appliance is connected, or 12m where a group of appliances is connected.
6. Step-irons shall not be fitted in any chambers unless specified otherwise.
7. Manhole/Gully covers shall be regulated to suit finished levels and crossfalls
8. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations
9. Drains passing beneath buildings to have minimum 100mm granular fill or flexible filling around pipe. Where the pipe crown is within 300mm of the underside of the slab, pipe shall be encased in concrete integral with the slab.
10. Drains passing through walls below ground level to have minimum 50mm clearance all round and opening in walls to be masked all round with rigid sheet material to prevent ingress of fill or vermin. Openings in walls for pipes shall have concrete lintels to support wall construction above
11. Unless stated otherwise, pipes to be 100mm Diameter.

STANDARD ROADS / FOOTPATH NOTES:

1. Existing structures to be broken out to minimum 450mm below top of finished surface level. Existing footpath to be broken out and rubble and existing subbase to be removed off-site.
2. Subgrade to be proof rolled with one pass of a smooth-wheeled roller having a mass per M-width of roll of not less than 2,100-kg or a Vibrating Roller having a mass per M-width of roll of not less than 700-kg or a Vibrating Plate Compactor having a mass per m2 of not less than 1400-kg. Any soft spots shall be removed and replaced with Type 1 compacted in layers not exceeding 150mm thickness.
3. All formations are to be treated with an approved herbicide before placing sib-base material on a geotextile separation membrane (Terram 1000 or similar approved)
4. All sub-base material is to be non-frost-susceptible. All concrete to be sulphate resisting

Rev	Amendments	Rev'd by	Date

Client
Billingford Ltd

Project
Latham Road

Title
Construction Phase Plan Phase 3

Job No 22178

Drawing No 22178-1001

Status Preliminary Rev P1

Scale 1:250@A1 Date 21-10-2024

Project Engineer TBP

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